

Notice of Allowability

Application No.	Applicant(s)
10/017,584	CHUNG, KI HYUN
Examiner	Art Unit
Jesse Diller	2187

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS**. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to the after-final amendment received 06/17/2005.
2. The allowed claim(s) is/are 1-4, 6, 8, 10-13, and 15-26, now renumbered as 1-22.
3. The drawings filed on 03 January 2005 are accepted by the Examiner.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date _____
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

DETAILED ACTION

1. Examiner acknowledges receipt of the amendment in response to the office action dated 03/18/2005, which amendment was received 06/17/2005. At this point, claims 1, 4, 6, 8, 10-13, 15, 20, and 25-26 have been amended, and claims 5, 7, 9, and 14 have been cancelled. Thus, claims 1-4, 6, 8, 10-13, and 15-26 (renumbered 1-22 for issue) are now pending in the application.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Eisenhart, Reg. No. 38,128, on July 8, 2005.

The application has been amended as follows:

- Paragraphs [27] and [28] are replaced with the following amended paragraphs:

[27] Similarly, in the company group, a designated company name associated with index No. 1 is saved in the first field of the company group, and so on. However, when any individual field is not occupied, for example, if a given index number has no data for the field, instead of leaving the field empty, the next available data is stored in that field, regardless of the index number. For example, if there is no data for a company corresponding to a name ~~in a second field~~ associated with index No. 2 in a second field, the field in the company group becomes available for the next company name instead of remaining unused. Thus, the company data corresponding to a third designated name for and having index No. 3 is saved in the second field of the company group.

[28] Furthermore, if there is no home phone number corresponding to the first designated name-~~for and having~~ index No. 1 in the home phone number group, and the next provided home phone number corresponds to the second name-~~for and has~~ index No. 2, then the home phone number of the second name is recorded in the first field of the home phone number group, which was originally reserved for the first designated name. If the phone number associated with the first name and having index No. 1 is assigned to the first field, but there is no home phone number data corresponding to the second, third, or fourth names, then instead of leaving the fields unoccupied, a home phone number corresponding to the fifth designated name-~~for and having~~ index No. 5 is recorded in the second field of the home phone number group.

- In Claim 20, lines 5 and 7, "class data" is replaced by "classes of data".
 - In Claim 25, lines 4 and 6, "class data" is replaced by "classes of data".
3. The following is an examiner's statement of reasons for allowance:
- Reasons for allowance for claims 1, 10, 12, 15, 20, and 25 may be found in the Office Action dated 03/18/2004. Claim 1 as finally amended incorporates allowable subject material from Claim 7, Claim 10 as finally amended incorporates material from Claim 9, and Claim 12 as finally amended incorporates material from Claim 14.

The closest prior art does not teach or suggest the limitations of these claims, specifically that each item is assigned a memory location order and the contents of the data are shifted to allow insertion of new elements. In fact, the prior art teaches away

from such limitations, using pointers or other means to prevent the extra data moves.

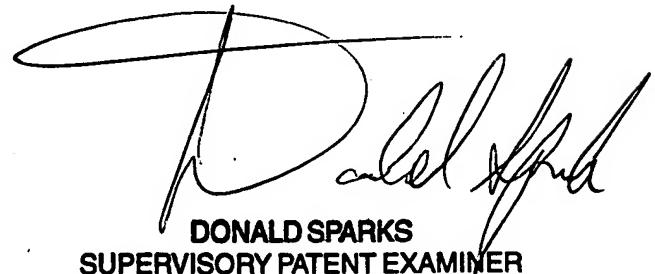
See Pars. 38-39 of the Office Action dated 09/02/2004 for examples and citations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jesse Diller whose telephone number is (571) 272-4173. The examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on (571) 272-4201. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. The central telephone number for the Technology Center is (571)272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



DONALD SPARKS
SUPERVISORY PATENT EXAMINER